

Title (en)  
ELECTRO ACOUSTIC SENSOR FOR HIGH PRESSURE ENVIRONMENTS

Title (de)  
ELEKTROAKUSTISCHER SENSOR FÜR HOCHDRUCKUMGEBUNGEN

Title (fr)  
CAPTEUR ELECTROACOUSTIQUE POUR DES ENVIRONNEMENTS SOUS HAUTE PRESSION

Publication  
**EP 2011167 A1 20090107 (EN)**

Application  
**EP 06751277 A 20060420**

Priority  
US 2006015510 W 20060420

Abstract (en)  
[origin: WO2007123537A1] A composite acoustic wave device (AWD) which is adapted for operation at high ambient pressures is provided. The AWD comprises two piezoelectric plates in back to back relationship, with electrodes disposed between the plates. The plates are bonded so as to neutralize the effects of external pressure. Further disclosed is a sensor utilizing the AWD and methods for utilizing such AWD for physical measurements in high pressure environments. An optional cavity formed between the piezoelectric plates offers the capability to measure the pressure and to further neutralize the residual effects of the pressure on measurement accuracy.

IPC 8 full level  
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CPC (source: EP US)  
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**US 2006015510 W 20060420**; CH 3552008 A 20060420; CN 200680022690 A 20060420; EP 06751277 A 20060420; JP 2009506470 A 20060420; RU 2007135333 A 20060420; US 81407406 A 20060420